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Ser His Ser Leu Thr Gly Thr Leu Pro Ser Asp Leu Asn Ser Leu Ser
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Ser Trp Lys Gly Asn Asp Pro Cys Asp Gly Trp Asn Tyr Val Val Cys			
315	320	325	
gct gcc gga aag att att act gtc aat ttc gag aaa cag ggt ttg cag			112839
Ala Ala Gly Lys Ile Ile Thr Val Asn Phe Glu Lys Gln Gly Leu Gln			
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Gly Thr Ile Ser Pro Ala Phe Ala Asn Leu Thr Asp Leu Arg Thr Leu			
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Phe Leu Asn Gly Asn Asn Leu Ile Gly Ser Ile Pro Asp Ser Leu Ile	
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Thr Leu Pro Gln Leu Gln Thr Leu Asp Val Ser Asp Asn Asn Leu Ser	
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Gly Leu Val Pro Lys Phe Pro Pro Lys Val Lys Leu Val Thr Ala Gly	
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Asn Ala Leu Leu Gly Lys Pro Leu Ser Pro Gly Gly Gly Pro Ser Gly	
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act act cct tct ggg tct tcg acc ggt gga agt ggt ggt gaa tcc tca	113127
Thr Thr Pro Ser Gly Ser Ser Thr Gly Gly Ser Gly Gly Glu Ser Ser	
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Lys Gly Asn Ser Ser Val Ser Pro Gly Trp Ile Ala Gly Ile Val Val	
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Ile Val Leu Phe Phe Ile Ala Val Val Leu Phe Val Ser Trp Lys Cys	
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Phe Val Asn Lys Leu Gln Gly Lys Phe Ser Arg Val Lys Gly His Glu	
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Asn Gly Lys Gly Gly Phe Lys Leu Asp Ala Val His Val Ser Asn Gly	
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Tyr Gly Gly Val Pro Val Glu Leu Gln Ser Gln Ser Ser Gly Asp Arg	
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Ser Asp Leu His Ala Leu Asp Gly Pro Thr Phe Ser Ile Gln Val Leu	
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cga caa gtg acg aat aat ttc agc gag gag aac att tta ggc agg gga	113463
Arg Gln Val Thr Asn Asn Phe Ser Glu Glu Asn Ile Leu Gly Arg Gly	
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Glu Phe Glu Ala Glu Ile Ala Leu Leu Ser Lys Val Arg His Arg His	

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Leu Val Ala Leu Leu Gly Tyr Cys Ile Asn Gly Asn Glu Arg Leu Leu			
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Val Tyr Glu Tyr Met Pro Gln Gly Thr Leu Thr Gln His Leu Phe Glu			
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Trp Gln Glu His Gly Tyr Ala Pro Leu Thr Trp Lys Gln Arg Val Val			
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ata gct ttg gat gta gcg cgg ggg gtg gaa tac ttg cac agt tta gct			113799
Ile Ala Leu Asp Val Ala Arg Gly Val Glu Tyr Leu His Ser Leu Ala			
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cag caa agc ttc att cat aga gac tta aaa ccc tca aac ata cta cta			113847
Gln Gln Ser Phe Ile His Arg Asp Leu Lys Pro Ser Asn Ile Leu Leu			
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Gly Asp Asp Met Arg Ala Lys Val Ala Asp Phe Gly Leu Val Lys Asn			
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Ala Pro Asp Gly Lys Tyr Ser Val Glu Thr Arg Leu Ala Gly Thr Phe			
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Gly Tyr Leu Ala Pro Glu Tyr Ala			
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725

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Cys Ala Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr	
595 600 605	
aag gct att ttg gag gat gga agt caa gtt gca gta aag aga ttg agg	3544
Lys Ala Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg	
610 615 620	
gaa aag atc act aaa ggt cat aga gaa ttt gaa tca gaa gtc agt gtt	3592
Glu Lys Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val	

625	630	635	
cta gga aaa att aga cac ccc aat gtt ttg gct ctg aga gcc tat tac			3640
Leu Gly Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr			
640	645	650	
ttg gga ccc aaa ggg gaa aag ctt ctg gtt ttt gat tac atg tct aaa			3688
Leu Gly Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys			
655	660	665	670
gga agt ctt gct tct ttc cta cat g gtaagtttcg tgtgctgttc			3733
Gly Ser Leu Ala Ser Phe Leu His			
675			
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ctgtataatt ctaatcggag aacagtacaa acaaaaacac ctaaggaaca ctatagcacc			3853
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tcttgatgca g gt ggt gga act gaa aca ttc att gat tgg cca aca aga			3962
Gly Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg			
680	685	690	
atg aaa ata gca caa gac ttg gcc cgt ggc ttg ttc tgc ctt cat tcc			4010
Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser			
695	700	705	
cag gag aac atc ata cat ggg aac ctc aca tcc agc aat gtg ttg ctt			4058
Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu			
710	715	720	
gat gag aat aca aat gct aaa att gca gat ttt ggt ctt tct cgg ttg			4106
Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu			
725	730	735	
atg tca act gct gct aat tcc aac gtg ata gct aca gct gga gca ttg			4154
Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu			
740	745	750	755
gga tac cgg gca cct gag ctc tca aag ctc aag aaa gca aac act aaa			4202
Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys			
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Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg			
775	780	785	
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Lys Ser Pro Gly Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val			
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gcc tca gtt gtc aaa gag gag tgg aca aat gag gtt ttt gat gca gac			4346
Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp			
805	810	815	
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Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu			

820	825	830	835	
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Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu				
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Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser				
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taaaatgttt ctgataaatt tctcttgcaa gtgtctcaga acccagttag ctcccttcctc	420
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caa tgc ttc aac cgt gtt tct gac aag aag aaa gaa aga tgc aag aca 1837
Gln Cys Phe Asn Arg Val Ser Asp Lys Lys Lys Glu Arg Cys Lys Thr
15              20              25              30

cac atg aac aac gtt aac cca tgt tgt ttt ttg ttt ctc tta tgt gtg 1885
His Met Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val
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tgg agc ctt gtt gtg ctc ccc tca tgc gtg agg cca gtt ttg tgt gaa 1933
Trp Ser Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu
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gat gaa ggt tgg gat gga gtg gtt gtg aca gca tca aac ctc tta gca 1981
Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala
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ctt gaa gct ttc aag caa gag ttg gtt gat cca gaa ggg ttc ttg cgg 2029
Leu Glu Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg
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agc tgg aat gac agt ggc tat gga gct tgt tcc gga ggt tgg gtt gga 2077
Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly
95              100              105              110

atc aag tgt gct aag gga cag gtt att gtg atc cag ctt cct tgg aag 2125
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agg aag ctt agt ctt cat gat aac caa att ggt ggt tca atc cct tca			2221
Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser			
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Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn			
160	165	170	
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Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu			
175	180	185	190
cag tct ctt gac ctc agc aac aac ttg ctc aca gga gca atc cct tat			2365
Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr			
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Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn			
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Ser Phe Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu			
225	230	235	
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Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser Gly Ser Leu Pro Asn			
240	245	250	
tct tgg ggt ggg aat tcc aag aat ggc ttc ttt agg ctt caa aat ttg			2557
Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu			
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Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly			
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Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser			
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Asn Leu Ser Ser Leu Thr Leu Asn Ala Glu Asn Asn Leu Leu Asp			
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att ttg agt aga aac caa ttt agt gga cat att cct tca agt att gca	2893
Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala	
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Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val	
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Ile Ala Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu	
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Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val	
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Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg	
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Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys				
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Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu				
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His				
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			Gly Gly Gly Thr Glu	
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 Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp
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 Arg Ser Thr Met Asn Met Met Ile Thr Thr Ile Leu Leu Arg Phe Trp
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 Gly


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75

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Pro	Leu	Pro	Ala	Ser	Leu	Thr	His	Ser	Phe	Ser	Leu	Thr	Phe	Leu	Ser	
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Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu Ser Arg	
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